

=> d his full

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(FILE 'USPAT' ENTERED AT 08:25:20 ON 26 MAR 1999)
      SET HIGH OFF
L1      42907 SEA (PANCAKE OR DISC OR DISK OR FLAT OR SPINDLE) (5A) (MOT
OR#
      OR MACHINE#)
      SET HIGH ON
L2      176 SEA L1 (P) (TURN? (A) TABLE#)
L3      2241 SEA L1 (P) (SWING? OR VIBRAT? OR ((CENTER? OR ECCENTRIC?)
(4A
      ) GRAVITY))
L4      14 SEA L1 (P) (VIBRAT? (P) ((CENTER? OR ECCENTRIC?) (4A) GRAV
ITY
      ))
L5      647 SEA L3 AND (BALL# OR SPHERE# OR SPHERICAL?)
L6      159 SEA L5 AND (310/CLAS OR (360/CLAS))
L7      42 SEA L2 AND (BALL# OR SPHERE# OR SPHERICAL? OR ROUND?)
L8      134 SEA L2 NOT L7
L9      159 SEA L5 AND (310/CLAS OR 360/CLAS)
L10     157 SEA L9 NOT (L2 OR L4 OR L7)
L11     21 SEA L3 AND L2
L12     542 SEA L3 AND (310/CLAS OR 360/CLAS)
L13     373 SEA L12 NOT (L2 OR L4 OR L6 OR L7 OR L8 OR L10 OR L11)
L14     31 SEA L13 AND (BALL# OR SPHERE# OR SPHERICAL? OR ROUND)
L15     8 SEA 4730299/UREF
L16     1 SEA 4730299/PN
L17     37 SEA L3 AND (369/264,269,270,271)/CCLST
L18     44 SEA L15 OR L17
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FILE USPAT

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* * * * *
*           W E L C O M E   T O   T H E           *
*           U . S .   P A T E N T   T E X T   F I L E           *
* * * * *
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FILE 'HOME' ENTERED AT 09:27:39 ON 26 MAR 1999

=> file wpids; file japio

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.15	0.15

FILE 'WPIDS' ENTERED AT 09:28:01 ON 26 MAR 1999
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FILE LAST UPDATED: 24 MAR 1999 <19990324/UP>
>>>UPDATE WEEKS:
MOST RECENT DERWENT WEEK 199912 <199912/DW>
DERWENT WEEK FOR CHEMICAL CODING: 199912
DERWENT WEEK FOR POLYMER INDEXING: 199912
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> D COST AND SET NOTICE DO NOT REFLECT SUBSCRIBER DISCOUNTS -
SEE HELP COST <<<

>>> INDEXING UPDATE CODES JUMP FORWARD TO 9901 - SEE NEWS <<<

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.66	2.81

FILE 'JAPIO' ENTERED AT 09:28:03 ON 26 MAR 1999
COPYRIGHT (C) 1999 Japanese Patent Office (JPO) and Japan Patent
Information Organization (Japio)

FILE LAST UPDATED: 12 MAR 1999 <19990312/UP>
FILE COVERS 1976 TO DATE.

=> s (spindle or pancake or flat or disc or disk) (5A) (motor# or machine#)

21033 SPINDLE
296 PANCAKE
84240 FLAT
38486 DISC
149960 DISK
259955 MOTOR#
303261 MACHINE#
L1 12305 (SPINDLE OR PANCAKE OR FLAT OR DISC OR DISK) (5A) (MOTOR# OR
MACHINE#)

=> s l1 and (turn? (A) table#)

323460 TURN?
123147 TABLE#
3402 TURN? (A) TABLE#
L2 145 L1 AND (TURN? (A) TABLE#)

=> s l2 (P) (ball# or sphere# or spherical? or round)

PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L2 (P) '
47887 BALL#

=> s l1 and ((vibrat? or swing? or shak?) (P) ((eccentric? or enter?) (3A)
gravity))

113005 VIBRAT?

21804 SWING?

10848 SHAK?

21040 ECCENTRIC?

73976 ENTER?

26185 GRAVITY

20 (VIBRAT? OR SWING? OR SHAK?) (P) ((ECCENTRIC? OR ENTER?) (3A)
GRAVITY)

L4 7 L1 AND ((VIBRAT? OR SWING? OR SHAK?) (P) ((ECCENTRIC? OR
ENTER?))

5464 SPHERE#

28500 SPHERICAL?

29119 ROUND

L3 2 L2 (P) (BALL# OR SPHERE# OR SPHERICAL? OR ROUND)